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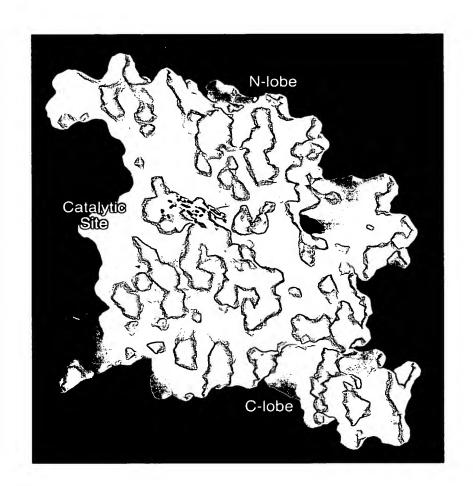
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Docket No.: 11669.0054USC4
Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.
Phone No.: 612.371.5268
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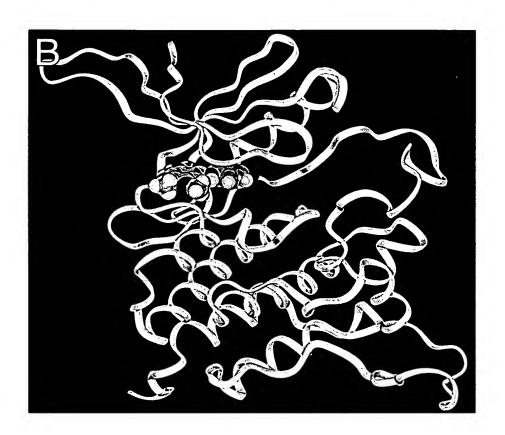
Inventor: Fatih M. Uckun
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Attorney Name: Denise M. Kettelberger, Ph.D.
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FIG. 2A



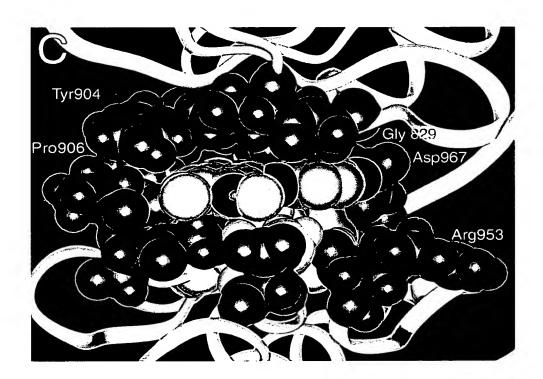
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FIG. 2B



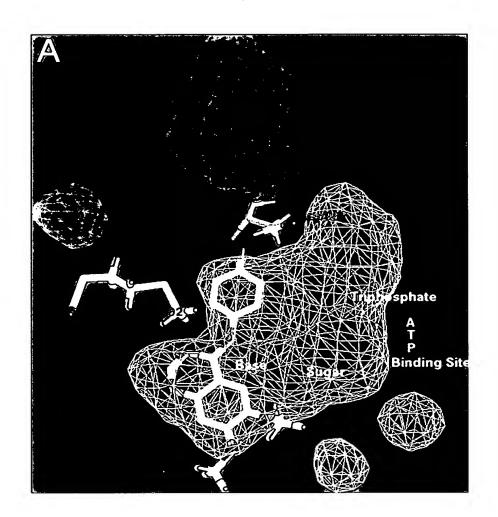
Inventor: Fatih M. Uckun
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Attorney Name: Denise M. Kettelberger, Ph.D.
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FIG. 2C



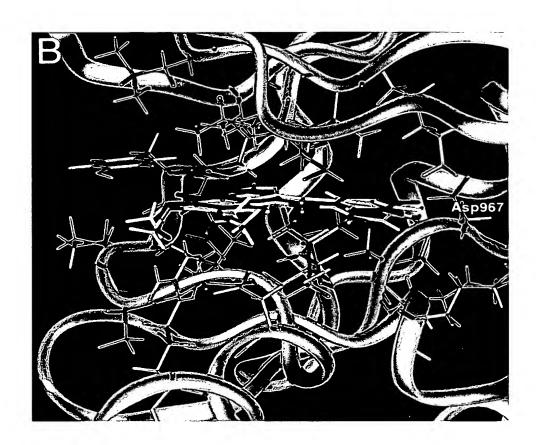
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FIG. 3A



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FIG. 3B

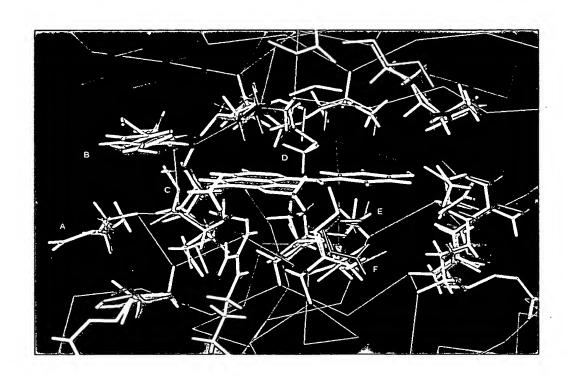


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FIG. 3C

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FIG. 4A



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3						
Protein Tyrosine Kinase	Residue at Region A	Residue at Region B	Residue at Region C	Residue at Region D	Residue at Region E	Residue at Region F
JAK3	Pro906	Tyr904	Leu905	Met902	Ala966	Asp912
JAK2	Pro933	Tyr931	Leu932	Met929	Gly993	Asp939
JAK1	Pro948	Phe946	Leu947	Met944	Gly1008	Glu954
втк	Ala478	Tyr476	Met 477	Thr 474	Ser 538	Asn 484
SYK	Glu342	Met340	Ala341	Met338	Ser403	Lys348
HCK	Ala342	Phe340	Met341	Ala342	Ala403	Asp348
LYN	Ala323	Tyr321	Met322	Ala323	Ala384	Asp329
IRK	Ala1080	Leu1078	Met1079	Met1076	Gly1149	Ser1086

FIG. 4B

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FIG. 5A

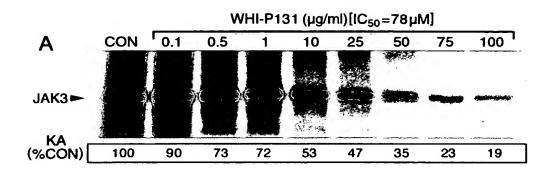
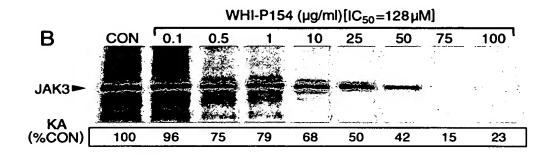


FIG. 5B



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FIG. 5C

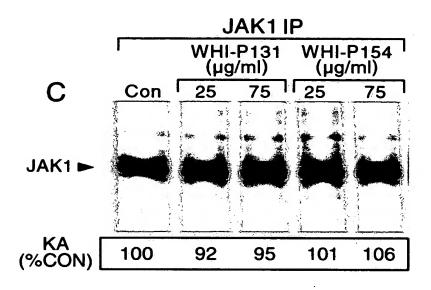
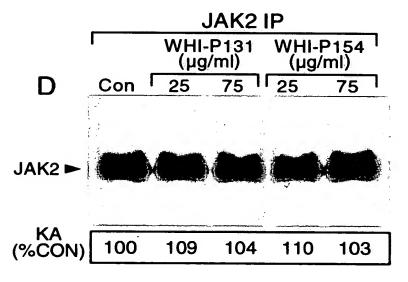
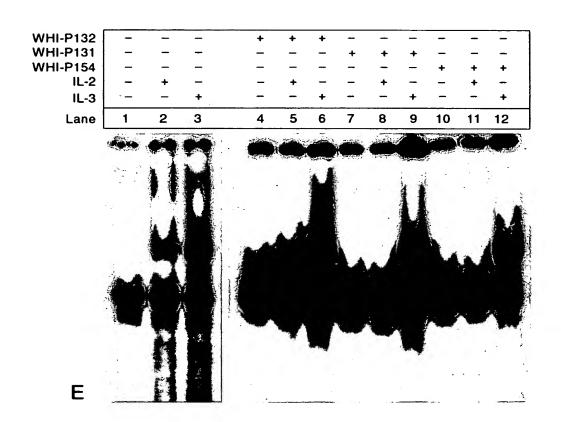


FIG. 5D



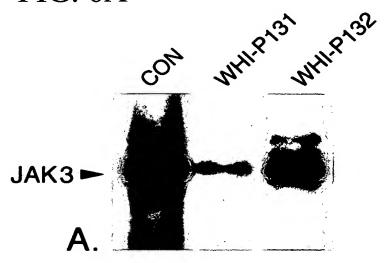
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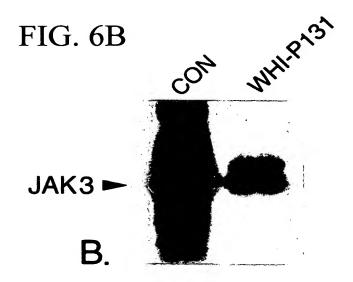
FIG. 5E



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FIG. 6A





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FIG. 6C

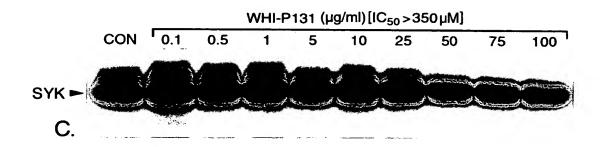
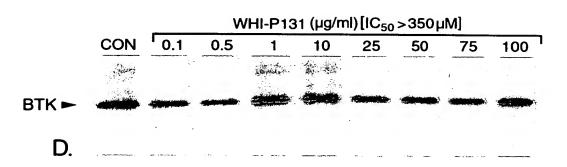


FIG. 6D



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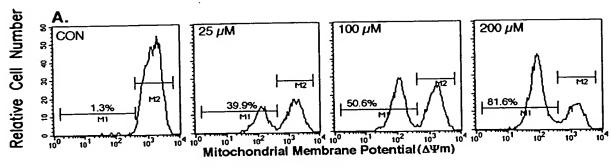


FIG. 7A

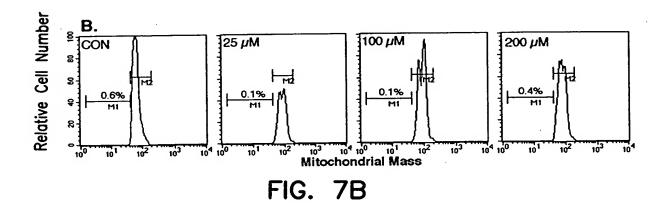


FIG. 7C

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FIG. 7D1

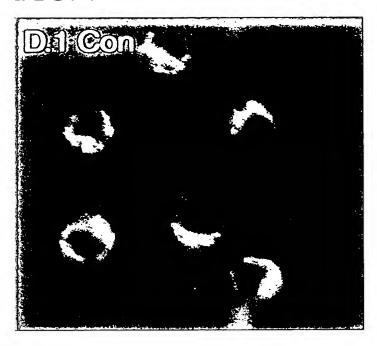


FIG. 7D2



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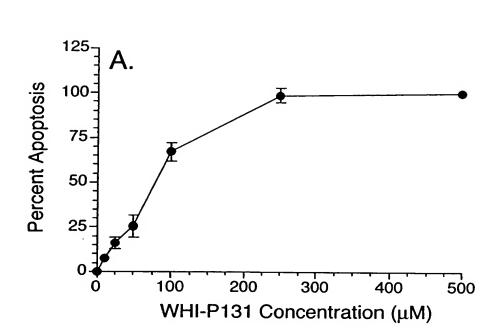


FIG. 8A

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FIG. 8B1

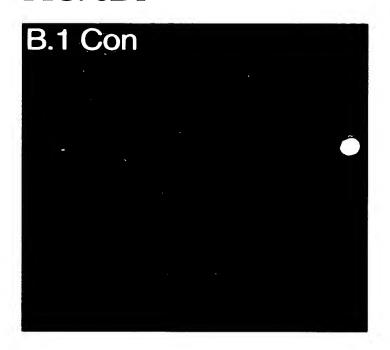
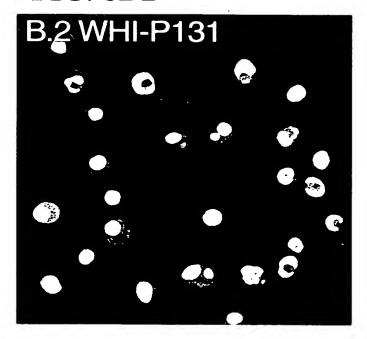
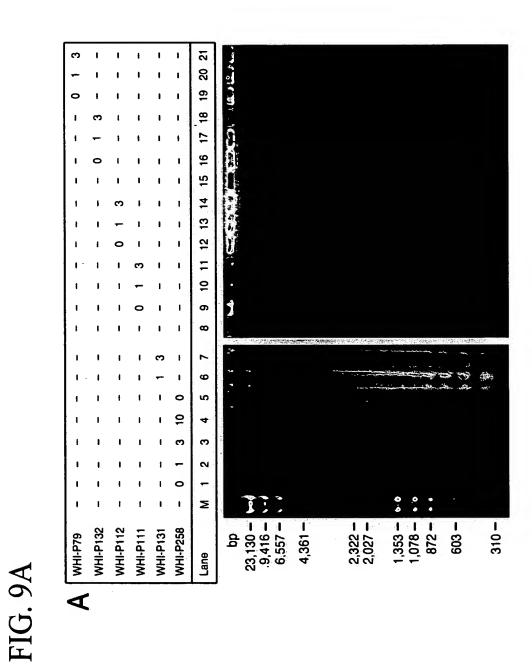


FIG. 8B2



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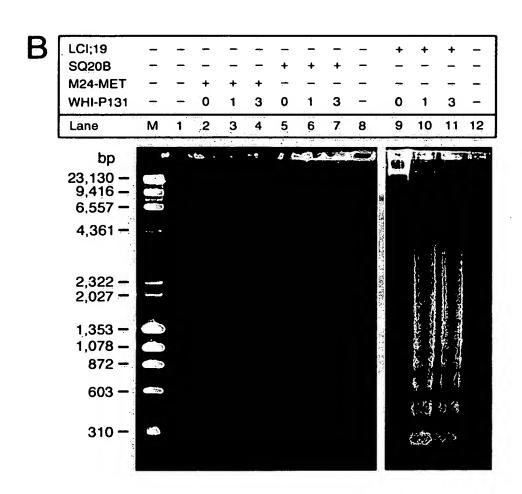


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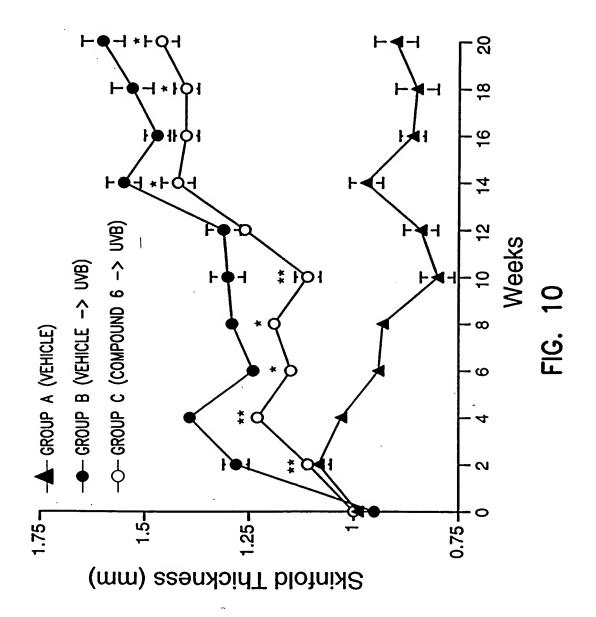
Title: THERAPEUTIC COMPOUNDS Attorney Name: Denise M. Kettelberger, Ph.D. Phone No.: 612.371.5268

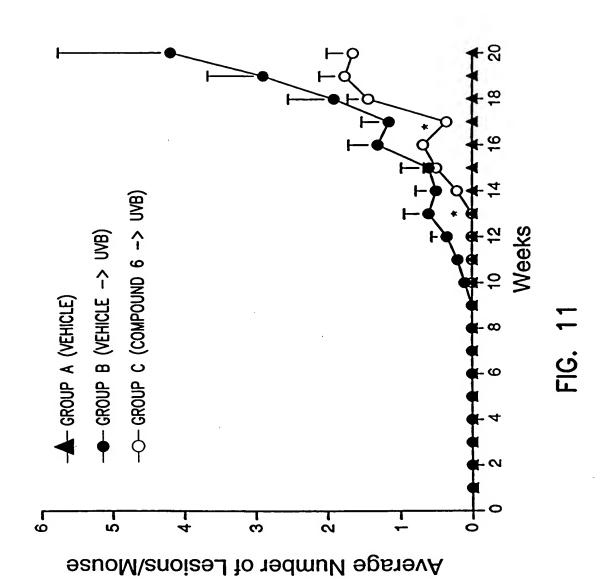
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FIG. 9B



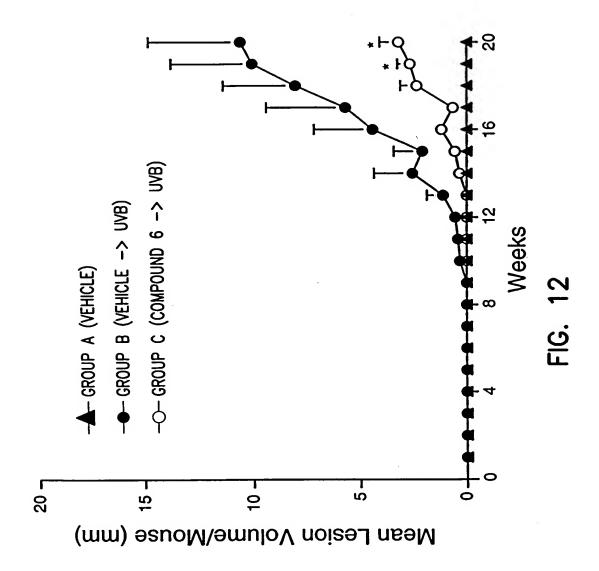
Inventor: Fatih M. Uckun
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Attorney Name: Denise M. Kettelberger, Ph.D.
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Attorney Name: Denise M. Kettelberger, Ph.D.
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FIG. 13A

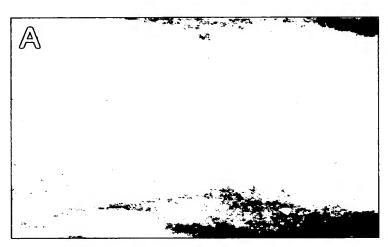
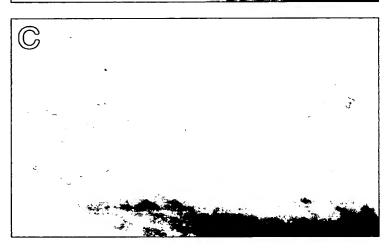


FIG. 13B



FIG. 13C



Inventor: Fatih M. Uckun Docket No.: 11669.0054USC4 Title: THERAPEUTIC COMPOUNDS Attorney Name: Denise M. Kettelberger, Ph.D. Phone No.: 612,371.5268 Sheet 25 of 55

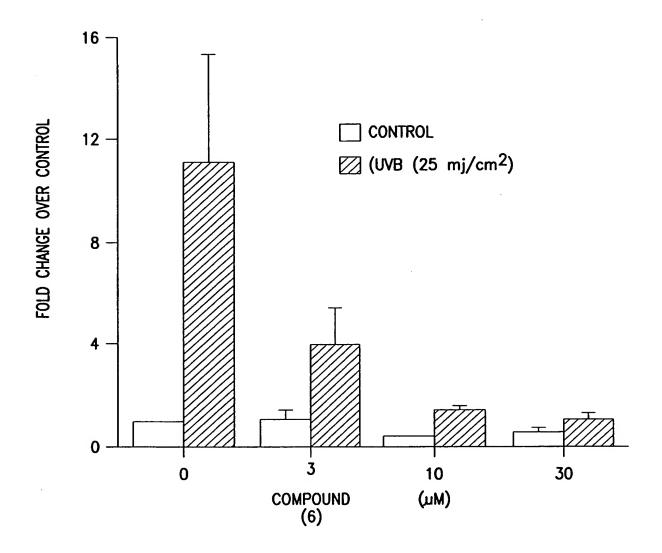


FIG. 14

Inventor: Fatih M. Uckun
Docket No.: 11669.0054USC4
Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.
Phone No.: 612.371.5268
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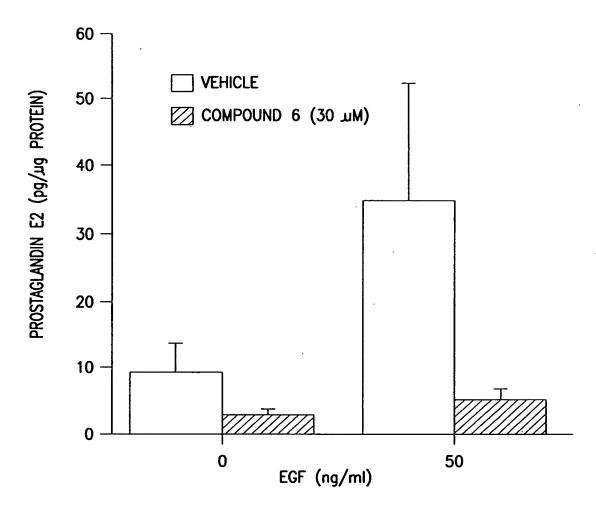
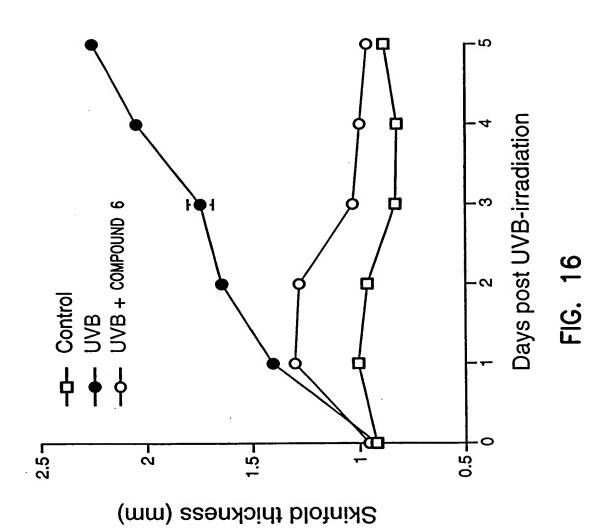


FIG. 15

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Attorney Name: Denise M. Kettelberger, Ph.D.
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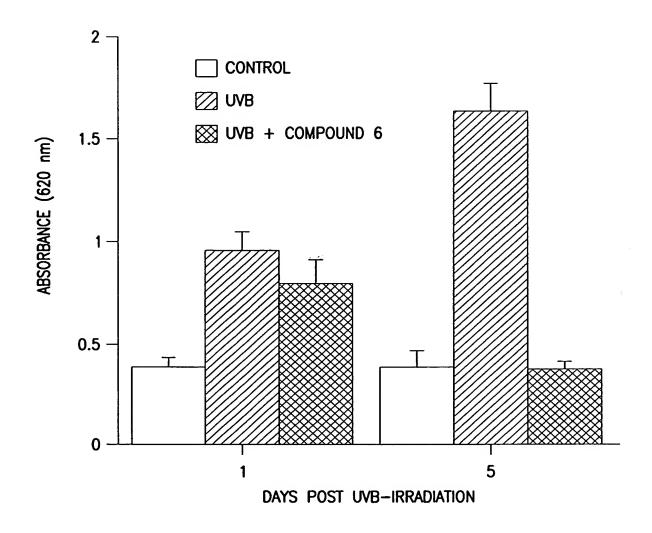
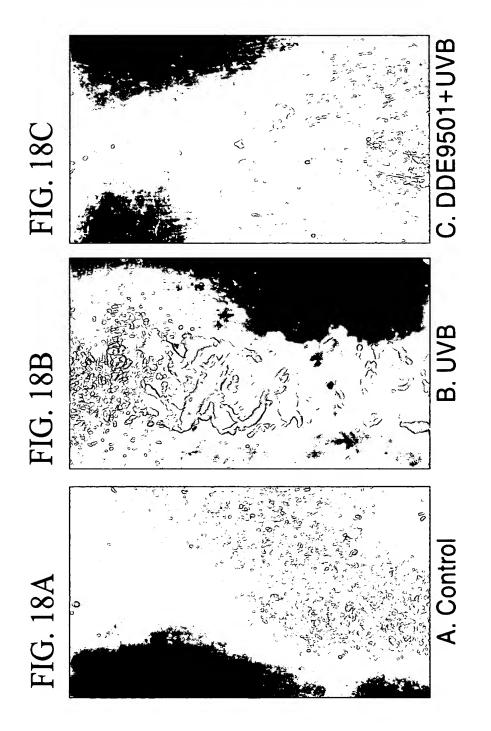
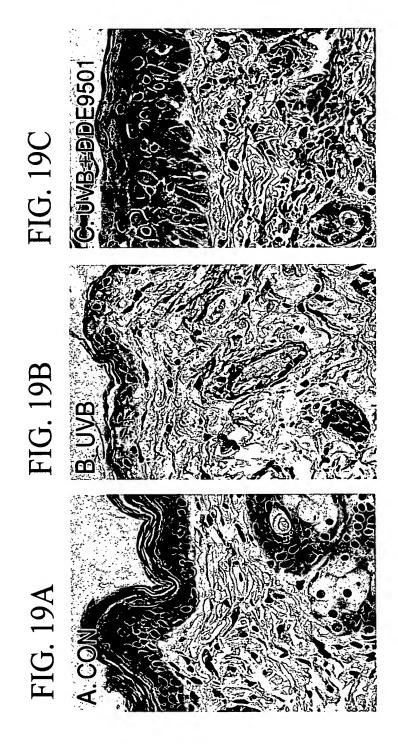


FIG. 17

Inventor: Fatih M. Uckun
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Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.
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FIG. 20A



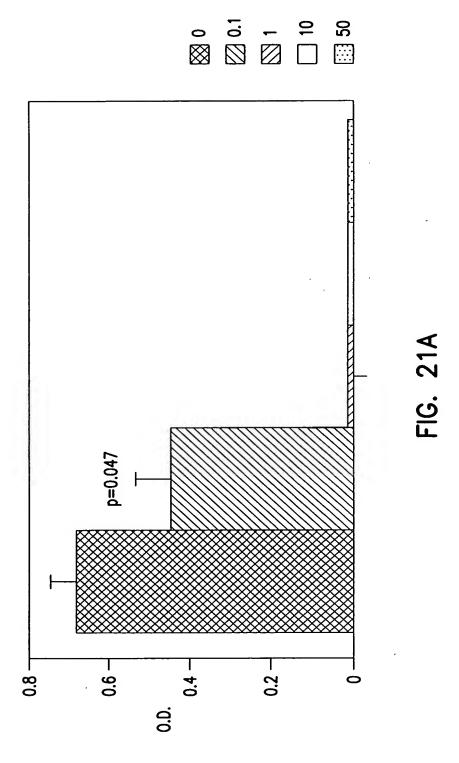
FIG. 20B



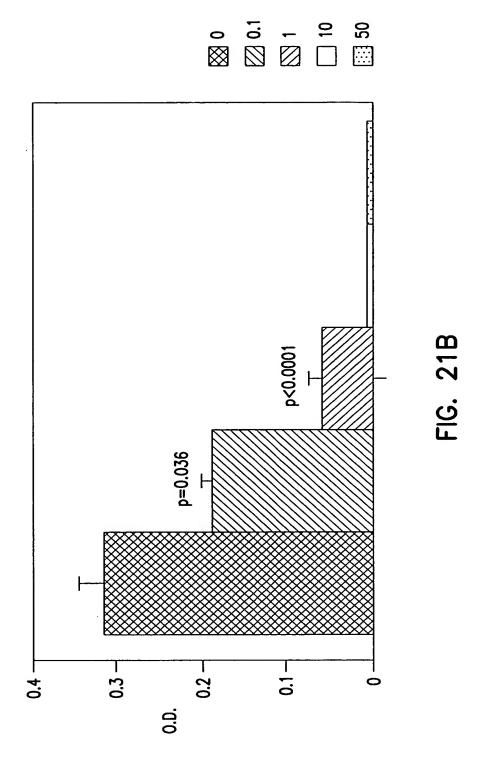
FIG. 20C



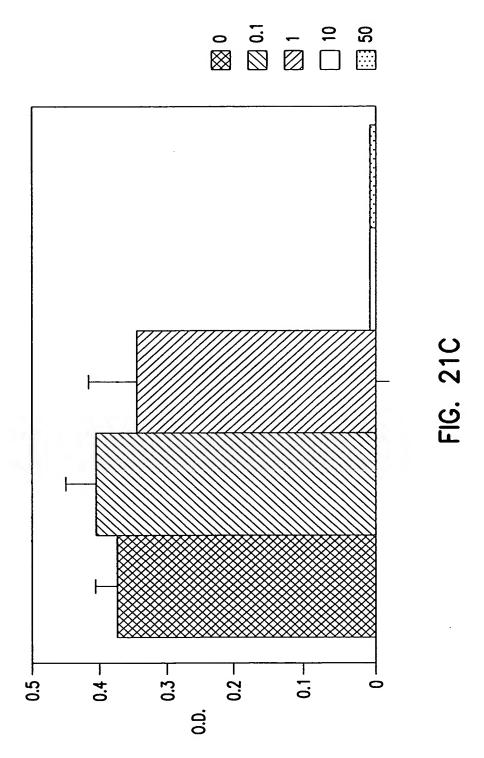
Inventor: Fatih M. Uckun
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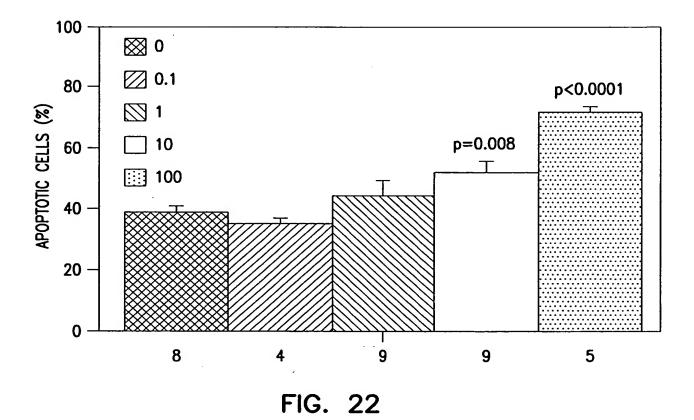
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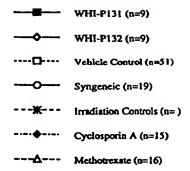
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Attorney Name: Denise M. Kettelberger, Ph.D.
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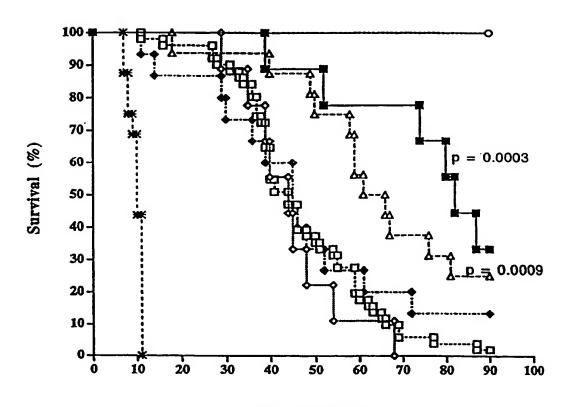


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Days post BMT

FIG. 23

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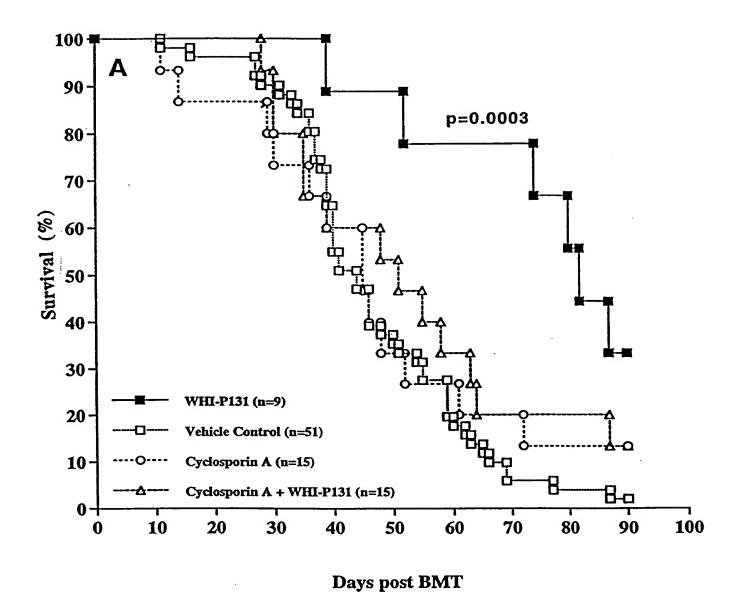


FIG. 24

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Title: THERAPEUTIC COMPOUNDS
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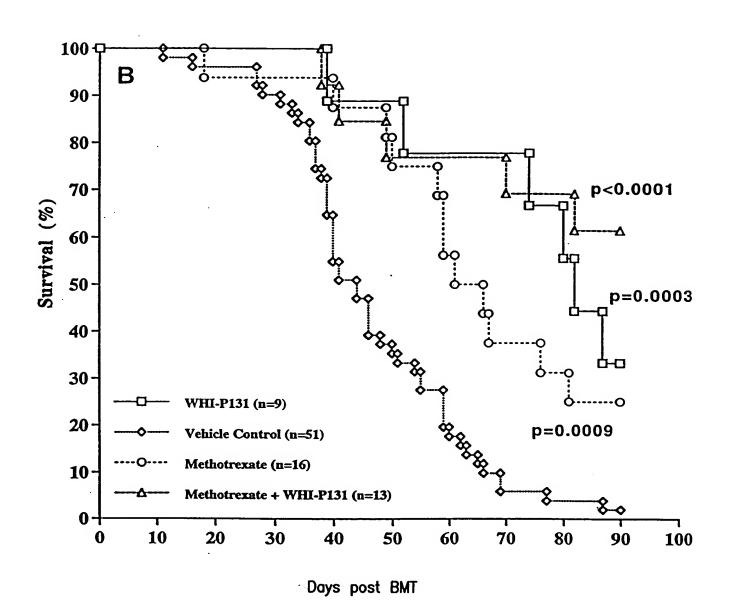


FIG. 25

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WHI-P131 (60 mg/kg/day) - effects on GVHD development

		Cumulative pro	Cumulative proportion surviving	ĎŪ			
Group	ď	30	09	06	median <u>survival</u>	Logrank p value	논 의
					ਗੁ	vs.	۷\$.
	-					Control	WHI-P131
CONTROL	51	90.2 ± 4.2	17.6 ± 5.3	2.0 ± 1.9	44		
WHI-P131	O	100 ± 0	77.8 ± 13.9	33.3 ± 15.7	82	0.0003	
WHI-P132	6	88.9 ± 10.5	11.1 ± 10.5	0 + 0	4 4	0.485	
Methotrexate	16	93.8 ± 6.1	56.2 ± 12.4	25.0 ± 10.8	63.5	0.0009	0.356
Methotrexate + WHI-P131	13	100 ± 0	76.9 ± 11.7	61.5 ± 13.5	87	<0.0001	0.320
Cyclosporine A	15	73.3 ± 11.4	26.7 ± 11.4	13.3 ± 8.8	45	0.493	0.029
Cyclosporine A + WHI-P131	15	80.0 ± 10.3	33.3 ± 12.2	20.0 ± 10.3	5	0.198	0.067

FIG. 26

Methotrexate + WHI-P131 Methotrexate vs.

0.062

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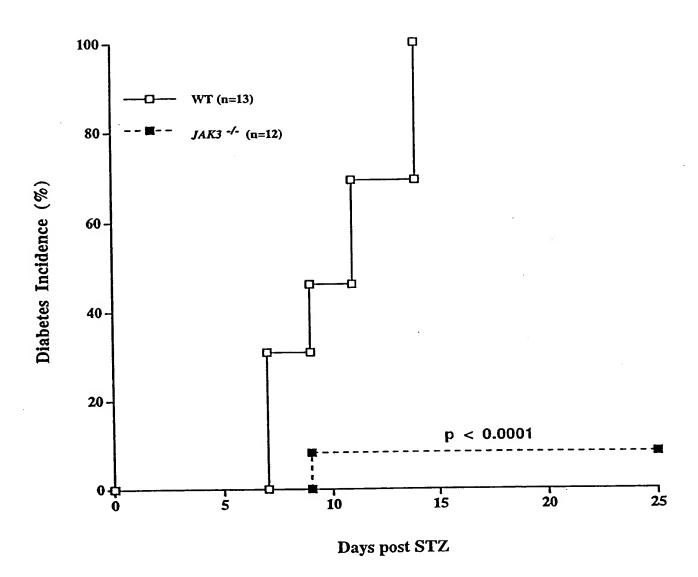


FIG. 27

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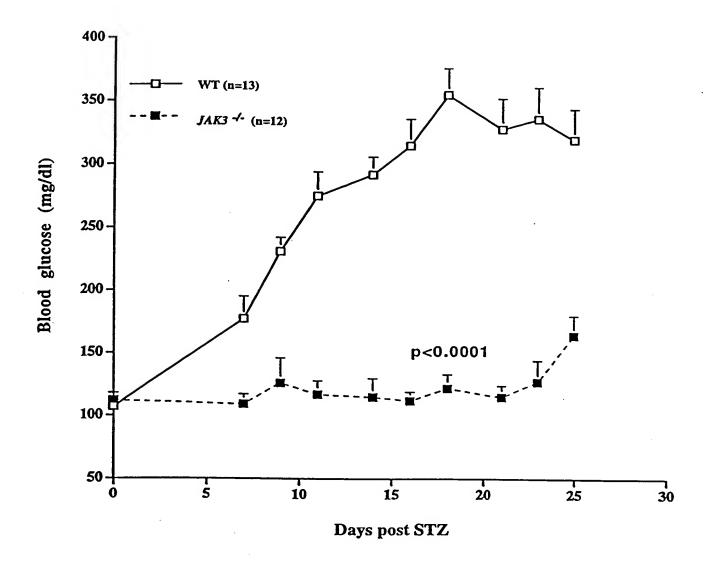


FIG. 28

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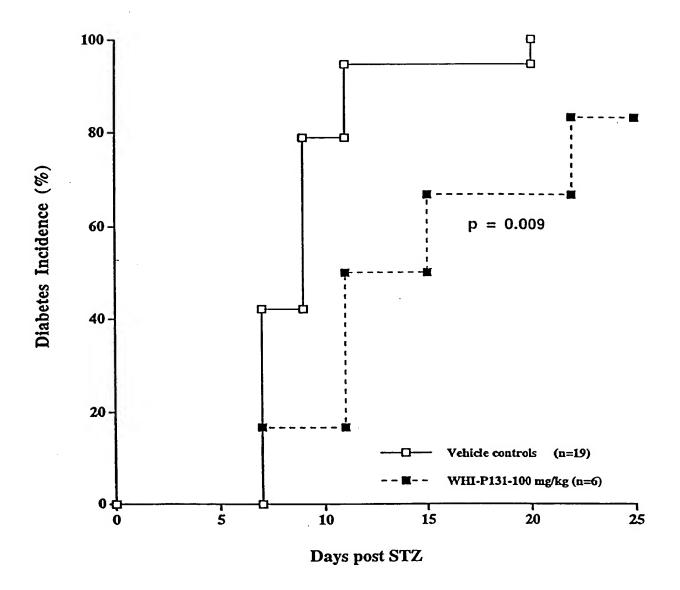


FIG. 29

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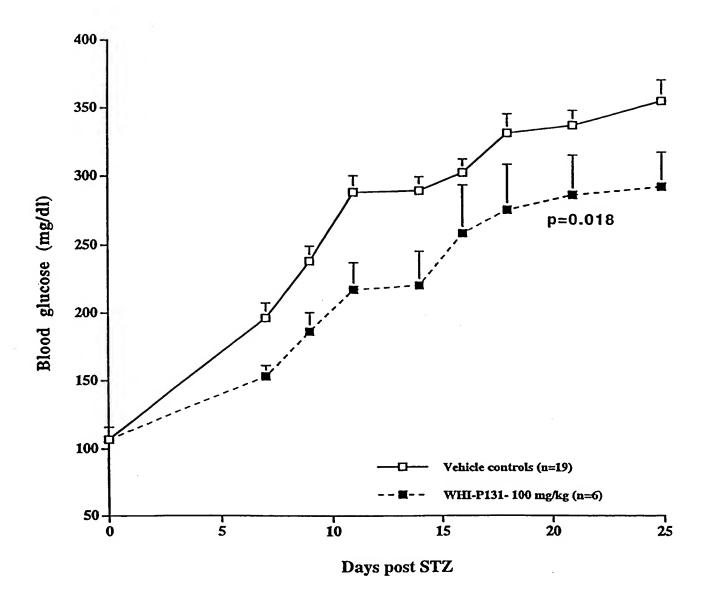


FIG. 30

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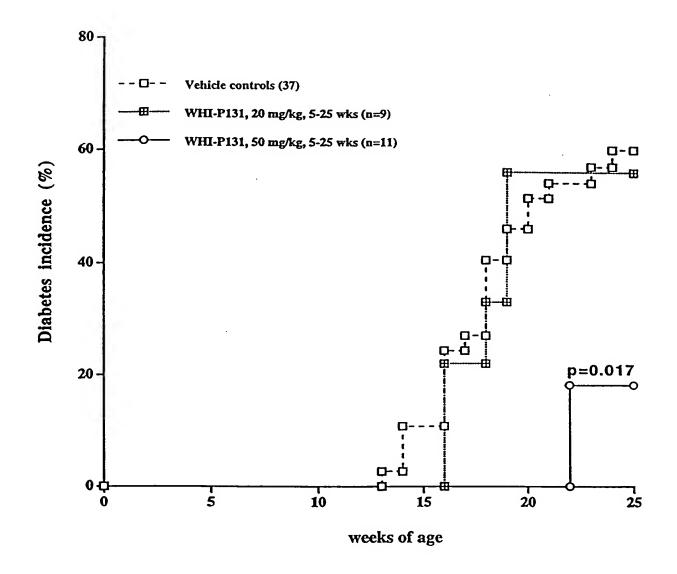


FIG. 31

Inventor: Fatih M. Uckun
Docket No.: 11669.0054USC4
Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.
Phone No.: 612.371.5268
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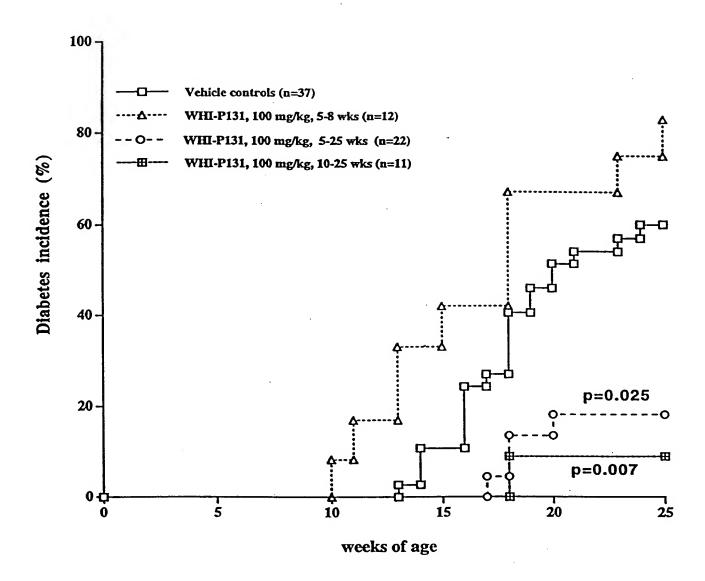


FIG. 32

Inventor: Fatih M. Uckun
Docket No.: 11669.0054USC4
Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.
Phone No.: 612.371.5268
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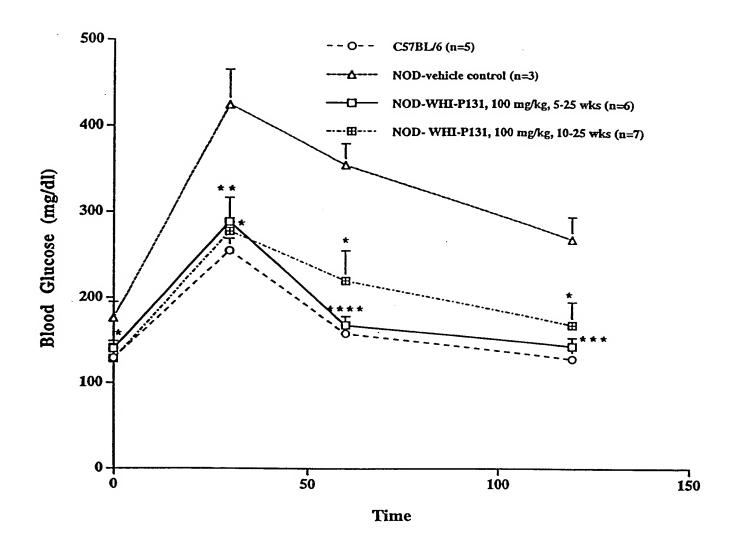


FIG. 33

Inventor: Fatih M. Uckun
Docket No.: 11669.0054USC4
Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.
Phone No.: 612.371.5268
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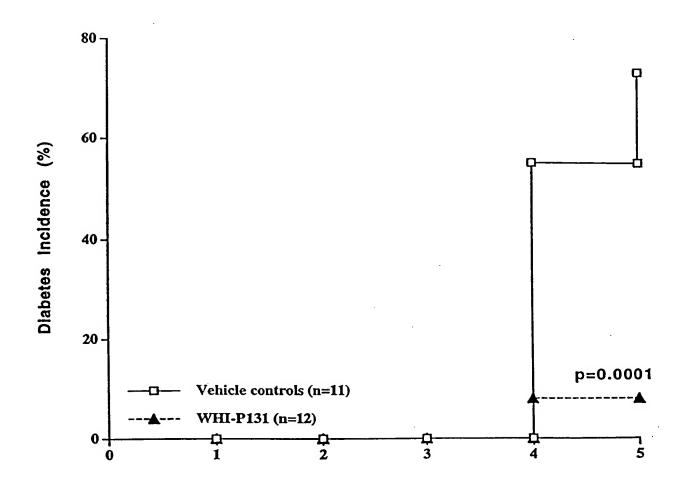


FIG. 34

Inventor: Fatih M. Uckun
Docket No.: 11669.0054USC4
Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.
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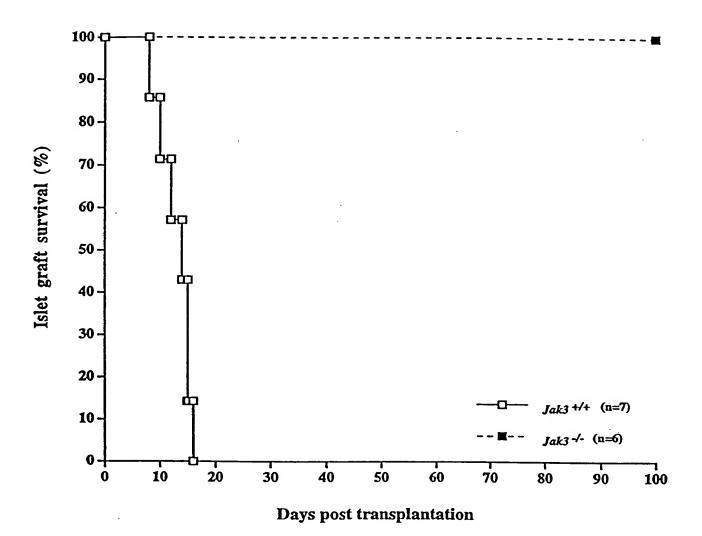


FIG. 35

Inventor: Fatih M. Uckun
Docket No.: 11669,0054USC4
Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.
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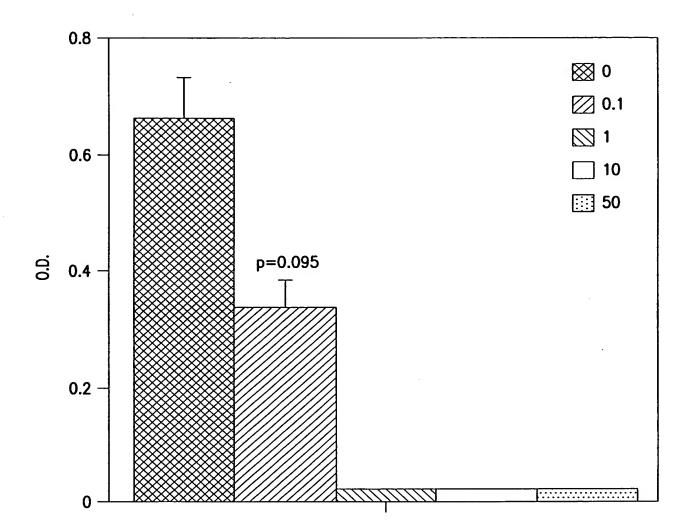
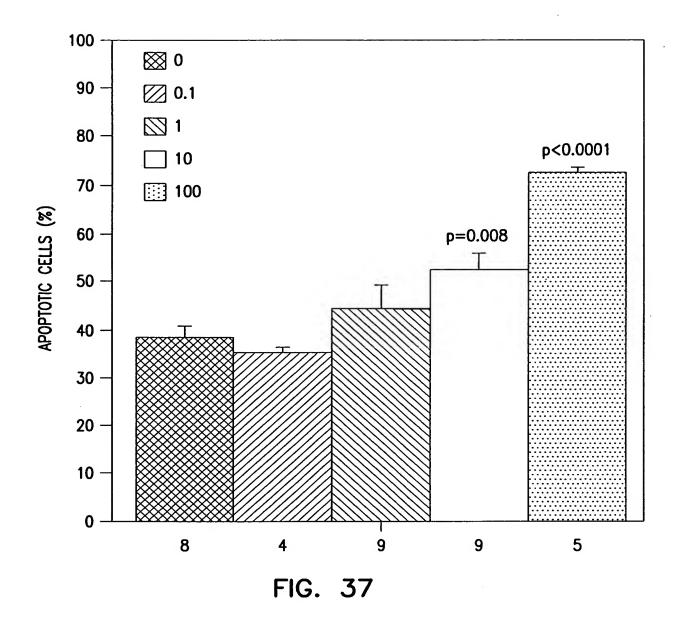


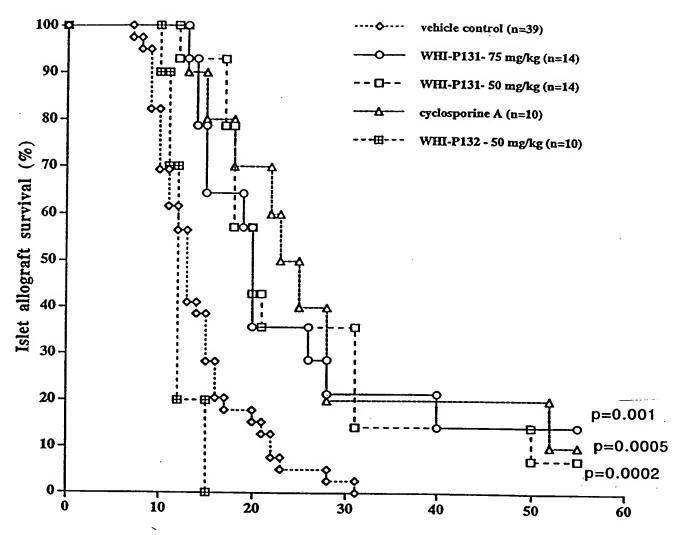
FIG. 36

Inventor: Fatih M. Uckun
Docket No.: 11669.0054USC4
Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.
Phone No.: 612.371.5268



Inventor: Fatih M. Uckun
Docket No.: 11669.0054USC4
Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.

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FIG. 38

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Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.
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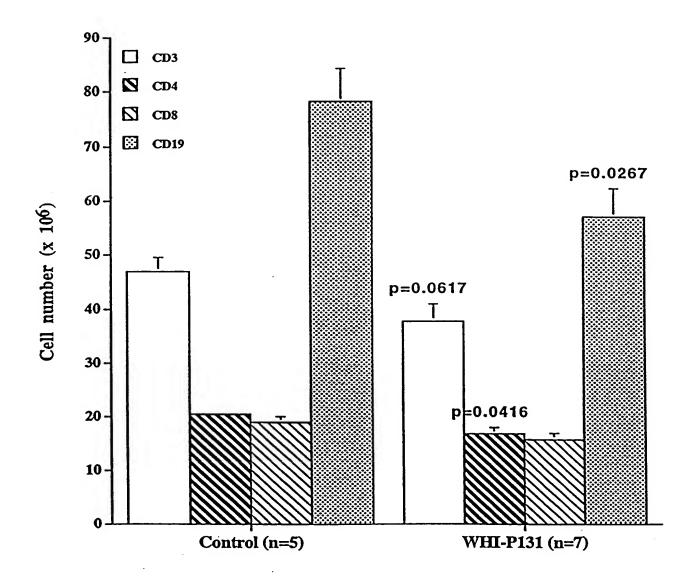


FIG. 39

Inventor: Fatih M. Uckun
Docket No.: 11669,0054USC4
Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.
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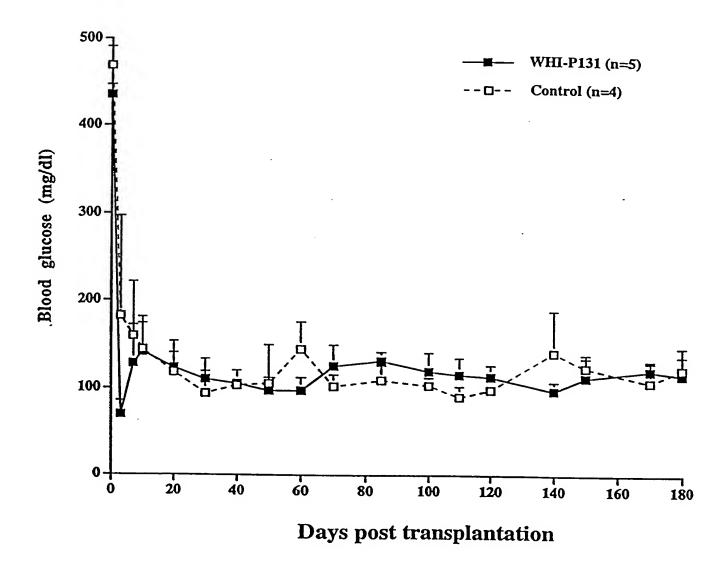


FIG. 40

Inventor: Fatih M. Uckun
Docket No.: 11669.0054USC4
Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.
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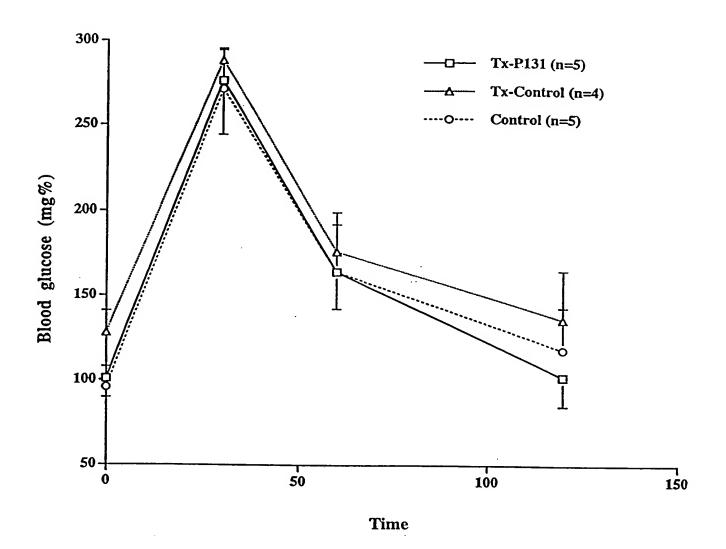


FIG. 41

Inventor: Fatih M. Uckun
Docket No.: 11669.0054USC4
Title: THERAPEUTIC COMPOUNDS
Attorney Name: Denise M. Kettelberger, Ph.D.
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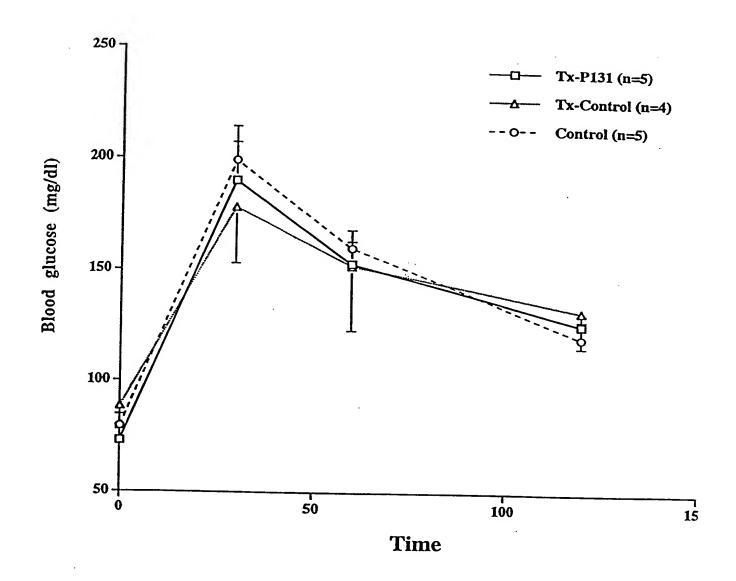


FIG. 42